

FIG. 1

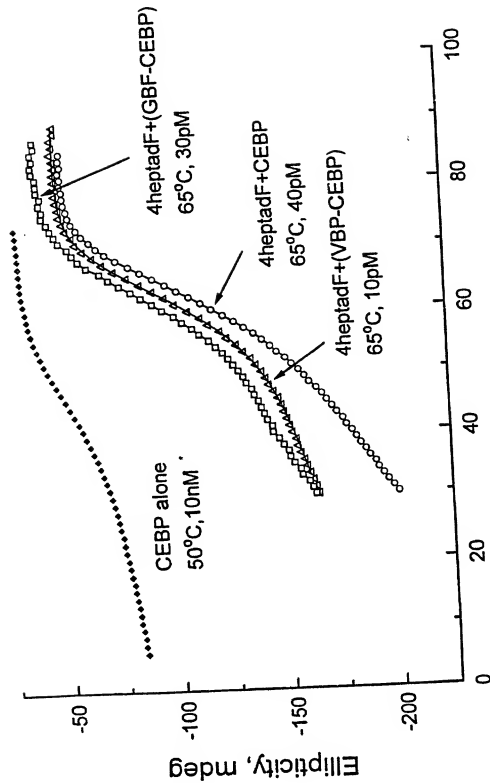


FIG. 2

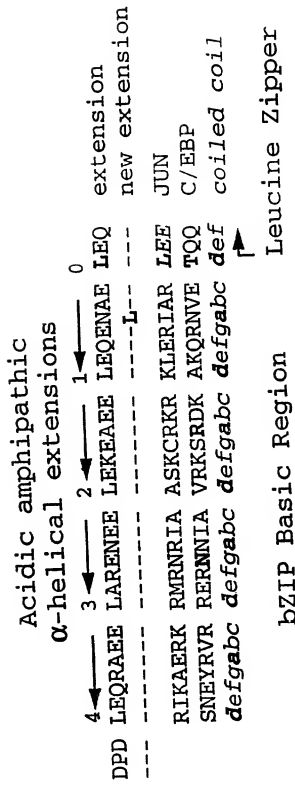


FIG. 3

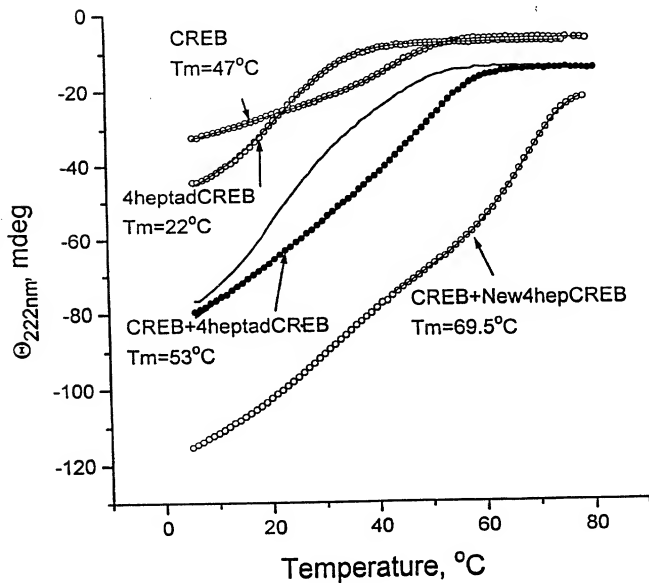


FIG. 4

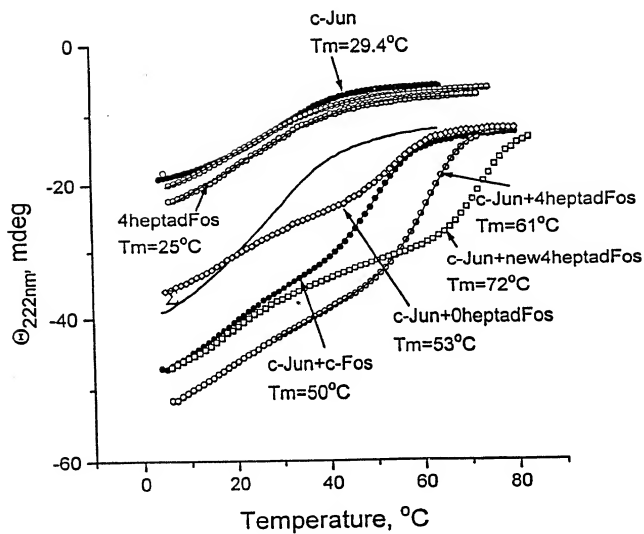


FIG. 5A

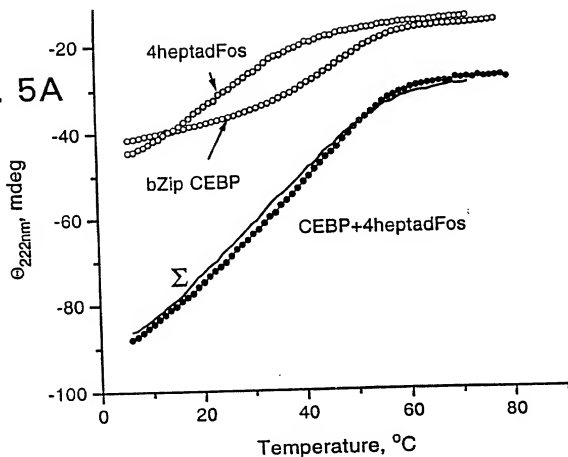


FIG. 5B

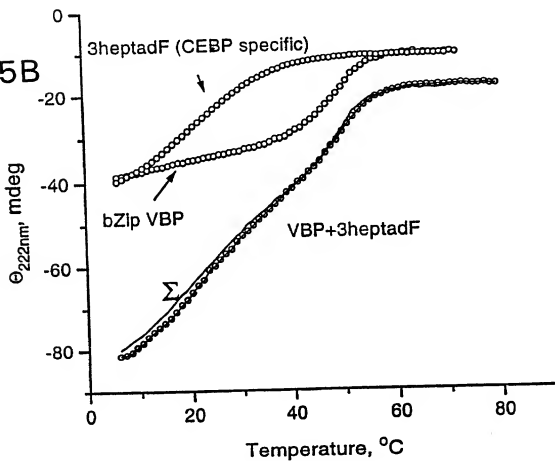


FIG. 6

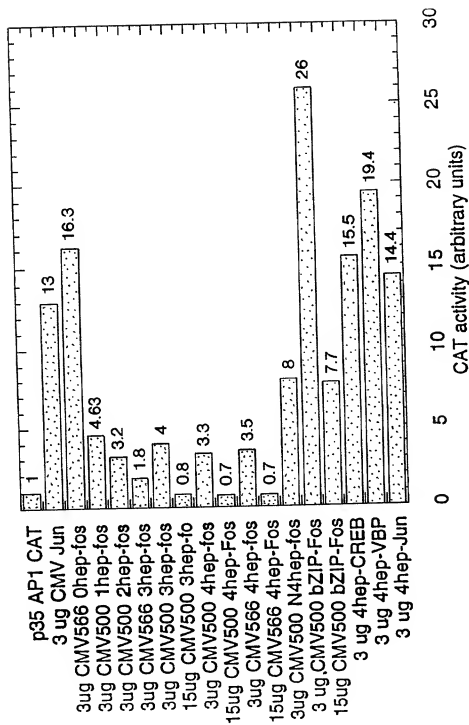
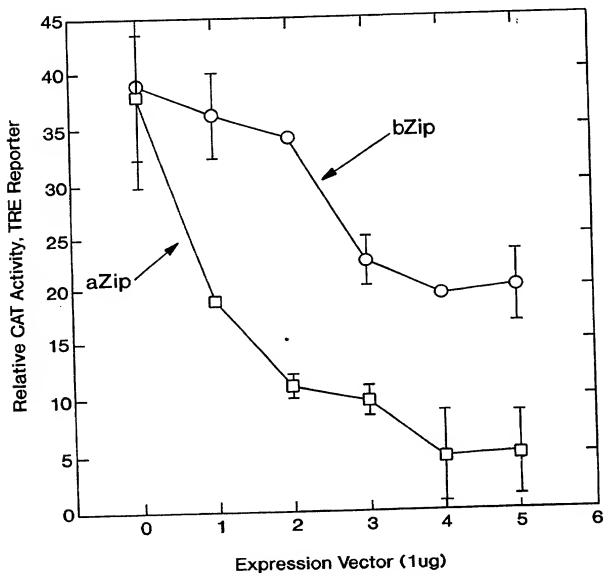


FIG. 7



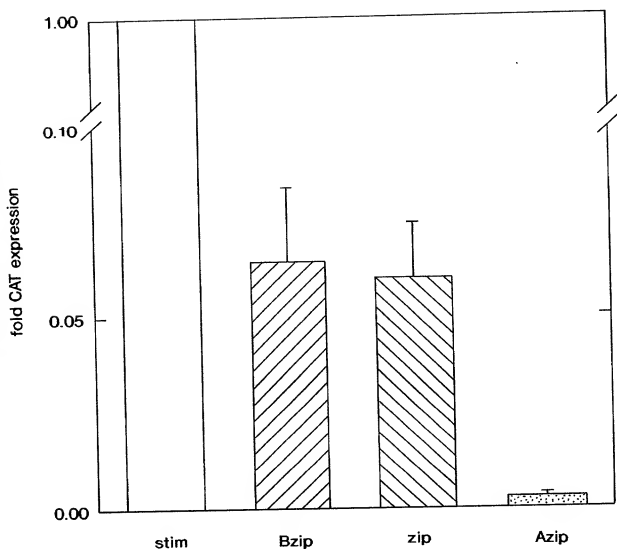


FIG. 8

FIG. 9

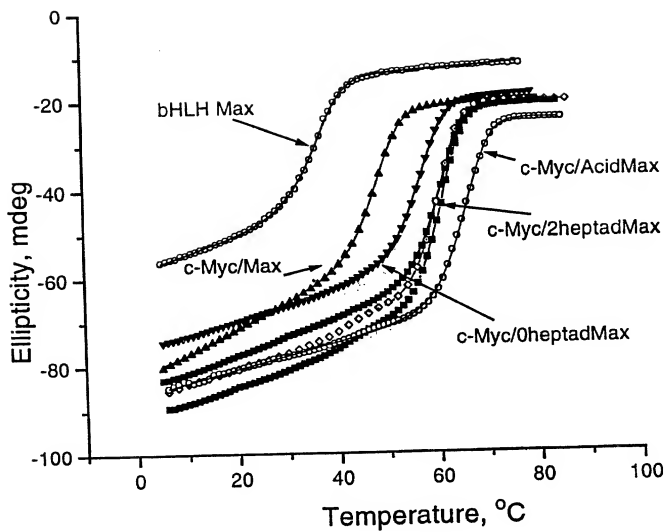


FIG. 10A

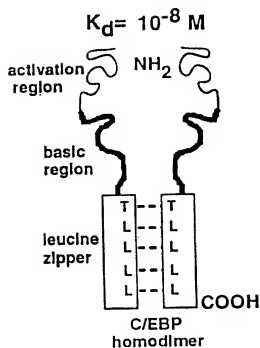
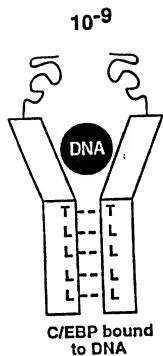


FIG. 10B



7×10^{-9}

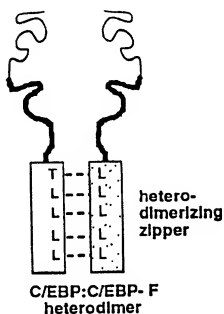


FIG. 10C

3×10^{-9}

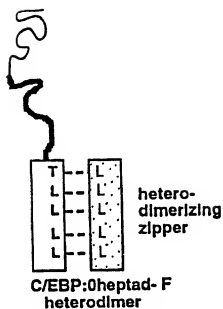


FIG. 10D

FIG. 11A

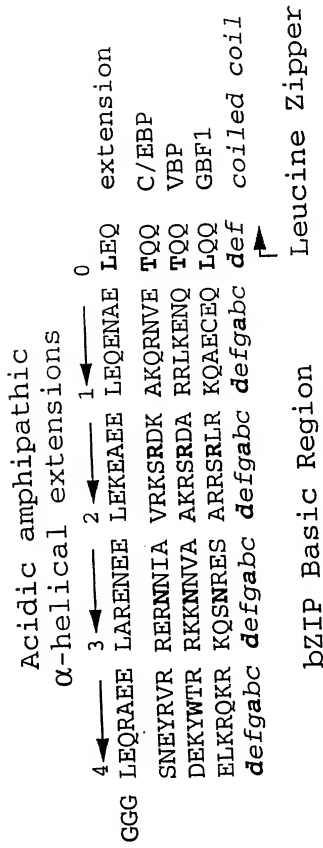


FIG. 11B

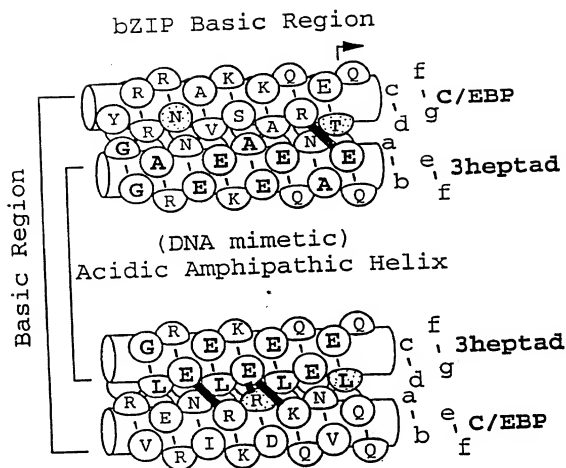


FIG. 11C

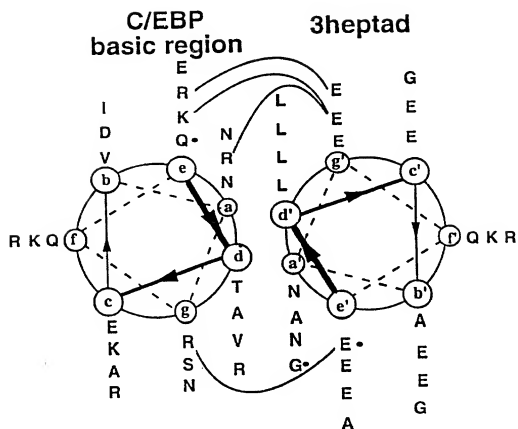


FIG. 12

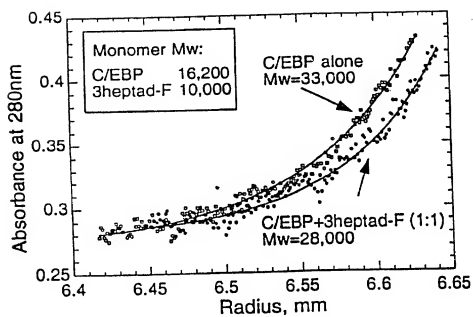


FIG. 13A

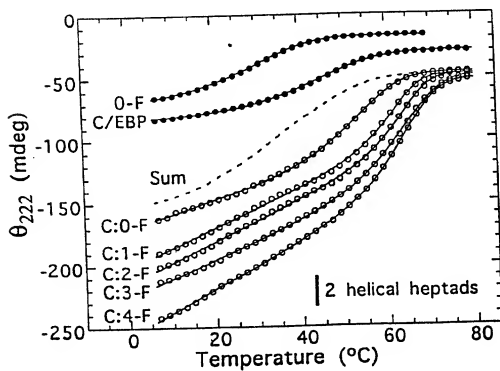
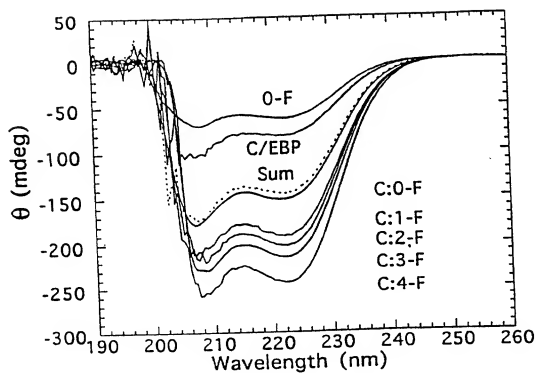


FIG. 13B

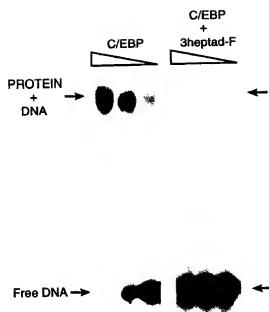


FIG. 14A

FIG. 14B

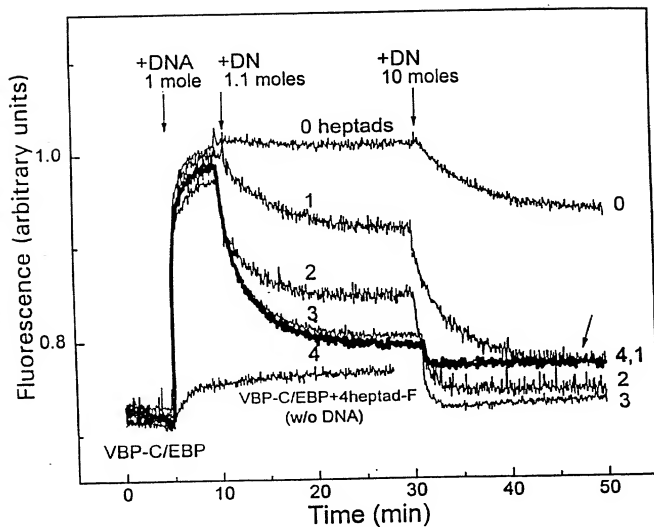


FIG. 15

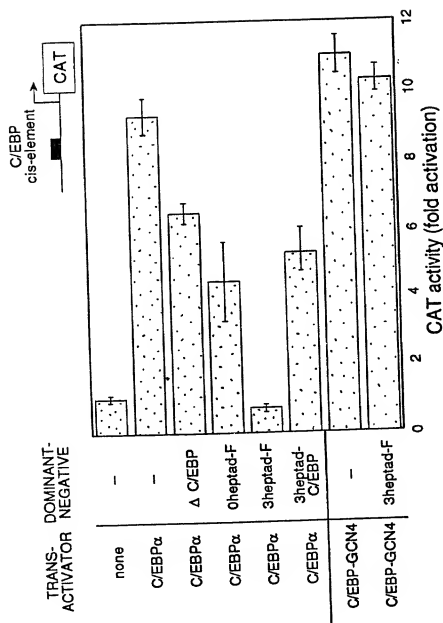


FIG. 16A

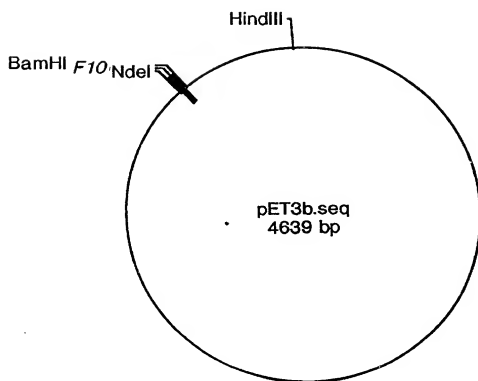


FIG. 16B

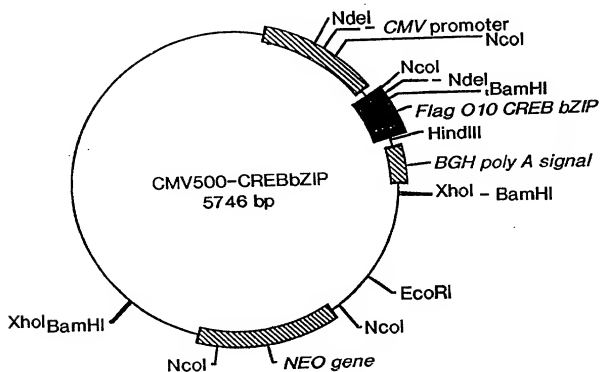
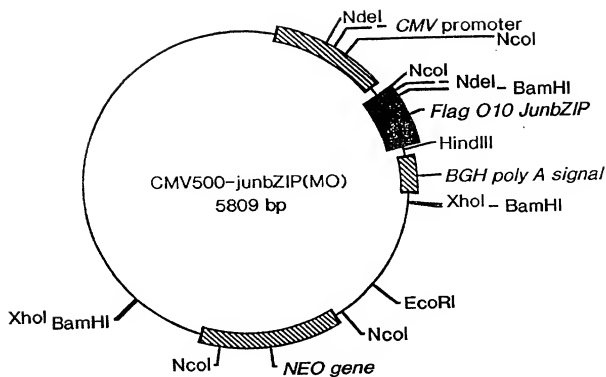


FIG. 16C

BamHI
 10 * 20 * 30 * 40 * 50 *
 GG ATCCC CTT CCT ACA CAG CCT GCT GAA GAA GCA CGA AAG AGA GAG GTT CTT
 L P T Q P A E A A R K R E V R>
 ___a___CREB (AA 1-341); NCBI GI: 56005; CODON_START=1; ___a___>

60 * 70 * 80 * 90 * 100 *
 CTA ATG AAG AAC AGG GAA GCA GCA AGA GAA TGT CGT AGA AAG AAG AAA
 L M K N R E A A R E C R R K K K>
 ___a___CREB (AA 1-341); NCBI GI: 56005; CODON_START=1; ___a___>

110 * 120 * 130 * 140 * 150 *
 GAA TAT GTG AAA TGT TTA GAG AAC AGA GTG GCA GTG CTT GAA AAC CAA
 E Y V K C L E N R V A V L E N Q>
 ___a___CREB (AA 1-341); NCBI GI: 56005; CODON_START=1; ___a___>

160 * 170 * 180 * 190 *
 AAC AAA ACA TTG ATT GAG GAG CTA AAA GCA CTT AAG GAC CTT TAC TGC
 N K T L I E E L K A L K D L Y C>
 ___a___CREB (AA 1-341); NCBI GI: 56005; CODON_START=1; ___a___>

200 * 210 *
 CAC AAG TCA GAT TAA TTC AAG CTT
 H K S D *>
 ___CREB (AA 1-3 ___>

Hind III

FIG. 17

900	910	920	930	940	
* NcoI *					*
CC ATG GAC TAC AAG GAC GAC GAT GAC AAG CAT ATG GCT AGC ATG ACT GGT					
M D Y K D D D D D K H M A S M T G>					
M D Y K D D D D D K H M A S M T G>					
950	960	970	980	990	*
* *	* *	* *	* *	* *	
GGA CAG CAA ATG GGT CGG GAT CCC CTT CCT ACA CAG CCT GCT GAA GAA					
G Q Q M G R D P L P T Q P A E E>					
G Q Q M G R D P L P T Q P A E E>					
1000	1010	1020	1030	1040	
* *	* *	* *	* *	* *	
GCA GCA CGA AGA AGA GAG GTT CGT CTA ATG AAG AAC AGG GAA GCA GCA					
A A R K R E V R L M K N R E A A>					
A A R K R E V R L M K N R E A A>					
1050	1060	1070	1080	1090	
* *	* *	* *	* *	* *	
AGA GAA TGT CGT AGA AAG AAG AAG AAA GAA TAT GTG AAA TGT TTA GAG AAC					
R E C R R K K K E Y V K C L E N>					
R E C R R K K K E Y V K C L E N>					
1100	1110	1120	1130		
* *	* *	* *	* *		
AGA GTG GCA GTG CTT GAA AAC CAA AAC AAA ACA TTG ATT GAG GAG CTA					
R V A V L E N Q N K T L I E E L>					
R V A V L E N Q N K T L I E E L>					
1140	1150	1160	1170	1180	
* *	* *	* *	* *	* *	
AAA GCA CTT AAG GAC CTT TAC TGC CAC AAG TCA GAT TAA TTC AAG CTT					
K A L K D L Y C H K S D *					
K A L K D L Y C H K S D *					

FIG. 18

Hind III

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```
BamH I      10          20          30          40
*           *           *           *           *
GGATCCC AAG GTG GAA CAG TTA TCT CCA GAA GAA GAG AAA AGG AGA
P D K V E Q>
          L S P E E E E K R R>
__1783 TO __> __2470_2466 TO 2573 OF HUM FOS _0__b__>

50          60          70          80          90
*           *           *           *           *
ATC CGA AGG GAA AGG AAT AAG ATG GCT GCA GCC AAA TGC CGC AAC CGG
I R R E R N K M A A A K C R N R>
__2500_b__b__251_2466 TO 2573 OF HUM FOS _30__b__b__2540b__>

100          110          120          130          140
*           *           *           *           *
AGG AGG GAG CTG ACT GAT ACA CTC CAA GCG GAG ACA GAC CAA CTA GAA
R R E L T D T L Q A>
          E T D Q L E>
__b_2_2466 TO 2573 OF HUM FOS _570b__>
          26_2688 TO 3329 OF H__>

150          160          170          180          190
*           *           *           *           *
GAT GAG AAG TCT GCT TTG CAG ACC GAG ATT GCC AAC CTG CTG AAG GAG
D E K S A L Q T E I A N L L K E>
__2710_c__c__272_2688 TO 3329 OF HUM FOS _40_c__c__2750c__>

200          210          220          230          240
*           *           *           *           *
AAG GAA AAA CTA GAG TTC ATC CTG GCA GCT CAC CGA CCT GCC TGC AAG
K E K L E F I L A A H R P A C K>
__c_2760__c__c_2688 TO 3329 OF HUM FOS _2790__c__c_2800__>

250          260
*           *
ATC CCT GAT TAATTCAGC TT
I P>
__c__>
          Hind III
```

FIG. 20

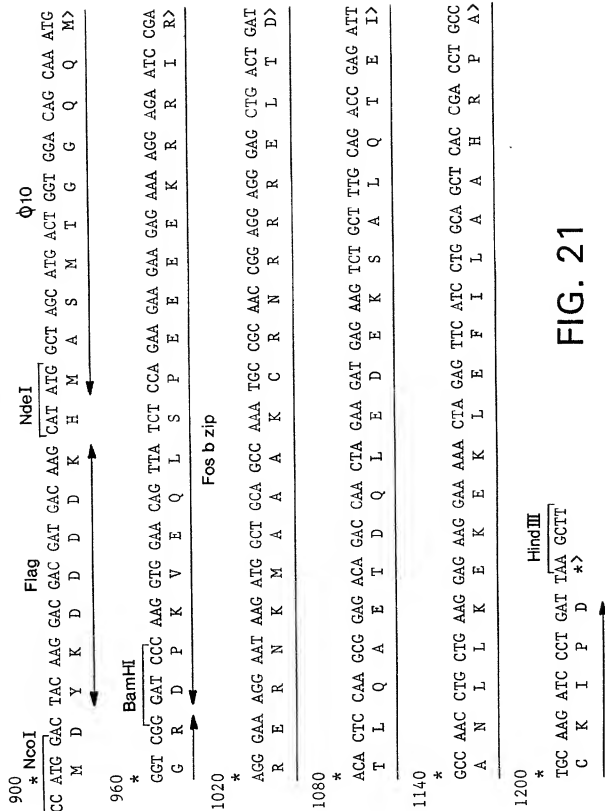


FIG. 21

FIG. 22

```

>NdeI                                     >BamHI
* | 10          *          20          *          30          *          40          *          50
ATATACAT ATG GCT AGC ATG ACT GGT GGA CAG CAA ATG GGT CGG GAT CCT
  M   A   S   M   T   G   G   Q   Q   M   G   R>
    _a_a_a_a_a_a_F10_a_a_a_a_a_a_>
                                     D   P>
                                     _b_>

          60          *          70          *          80          *          90          *
GAC CTG GAA CAA CGT GCT GAG GAA CTG GCC CGT GAA AAC GAA GAG CTG
D   L   E   Q   R   A   E   E   L   A   R   E   N   E   E   L>
_b_b_b_b_b_4HEPTAD ACIDIC EXTENSION_b_b_b_b_b_>

                                     >XhoI
100          *          110          *          120          *          130          *          140          *
GAA AAA GAG GCC GAA GAG CTG GAG CAG GAA AAC GCT GAA CTC GAG GCG
E   K   E   A   E   E   L   E   Q   E   N   A   E   L   E>
_b_b_b_b_b_4HEPTAD ACIDIC EXTENSION_b_b_b_b_b_>
                                     A>
                                     _>

          150          *          160          *          170          *          180          *          190          *
GAG ACA GAC CAA CTA GAA GAT GAG AAG TCT GCT TTG CAG ACC GAG ATT
E   T   D   Q   L   E   D   E   K   S   A   L   Q   T   E   I>
_c_c_c_c_c_c_FOS PROTEIN_c_c_c_c_c_c_>

          200          *          210          *          220          *          230          *          240          *
GCC AAC CTG CTG AAG GAG AAG GAA AAA CTA GAG TTC ATC CTG GCA GCT
A   N   L   L   K   E   K   E   K   L   E   F   I   L   A   A>
_c_c_c_c_c_c_FOS PROTEIN_c_c_c_c_c_c_>

                                     >HindIII
          250          *          260          *          270          *          280          *
CAC CGA CCT GCC TGC AAG ATC CCT GATT AATCAAGCT T
H   R   P   A   C   K   I   P>
_c_c_c_FOS PROTEIN_c_c_c_>

```

10059720.012902

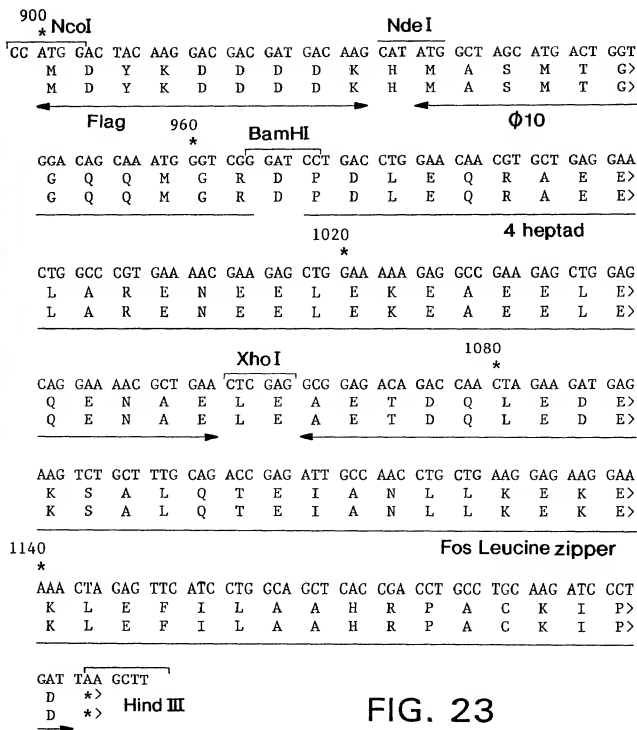


FIG. 23

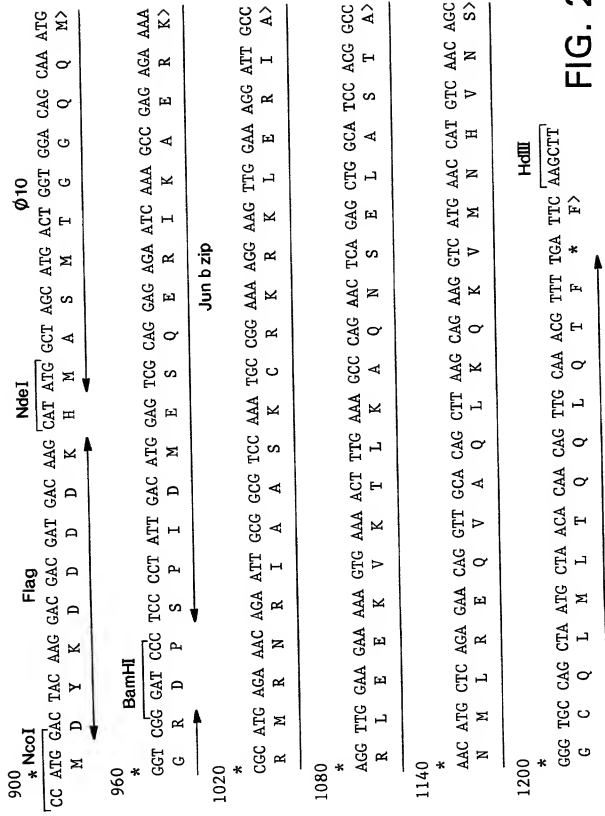


FIG. 24

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```

>NdeI                                     >BamHI
|                                           |
4090             4100             4110             4120             4130
*   *           *       *         *       *           *       *
ATACAT ATG GCT AGC ATG ACT GGT GGA CAG CAA ATG GGT CGG GAT CCC GAC
      M   A   S   M   T   G   G   Q   Q   M   G   R>
      _a_a_a_a_a_F10_a_a_a_a_a_>
                                   D   P   D>
                                   _b_b_b_>

                                >XhoI
                                |
          4140             4150             4160             4170             4180
        *   *           *       *         *       *           *       *
GAA GAG GAA GAT GAC GAA GAA GAA CTC GAG GAA CTG GAA GAC AGC TTT
E   E   E   D   D   E   E   E   L   E   E   L   E>
      _b_b_b_b_b_POLY-GLU_b_b_b_b_b_>
                                   D   S   F>
                                   _c_c_c_>

          4190             4200             4210             4220             4230
        *   *           *       *         *       *           *       *
CAC AGT TTG CGG GAC TCA GTC CCA TCA CTC CAA GGA GAG AAG GCA TCC
H   S   L   R   D   S   V   P   S   L   Q   G   E   K   A   S>
      _c_c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_c_>

          4240             4250             4260             4270
        *   *           *       *         *       *           *       *
CGG GCC CAA ATC CTA GAC AAA GCA ACA GAG TAT ATC CAG TAT ATG CGA
R   A   Q   I   L   D   K   A   T   E   Y   I   Q   Y   M   R>
      _c_c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_c_>

4280             4290             4300             4310             4320
        *   *           *       *         *       *           *       *
AGG AAA AAC CAT ACG CAC CAG CAA GAC ATT GAT GAC CTC AAG CGG CAG
R   K   N   H   T   H   Q   Q   D   I   D   D   L   K   R   Q>
      _c_c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_c_>

          4330             4340             4350             4360             4370
        *   *           *       *         *       *           *       *
AAT GCT CTT CTG GAG CAA CAA GTC CGT GCA CTG GAG AAG GCA AGA TCA
N   A   L   L   E   Q   Q   V   R   A   L   E   K   A   R   S>
      _c_c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_c_>

                                >HindIII
                                |
          4380             4390             4400
        *   *           *       *         *
AGT GCC CAA CTG CAG ACC TGAGGCCAA GCTTATC
S   A   Q   L   Q   T>
      MAX BHLH DOMAIN_c_>

```

FIG. 26

```

>NdeI                                     >BamHI
      |                                     |
      4090                               4100   4110   4120   4130
      * | * * * * *
ATATACAT ATG GCT AGC ATG ACT GGT GGA CAG CAA ATG GGT CGG GAT CCT
      M  A  S  M  T  G  G  Q  Q  M  G  R>
      _a_a_a_a_a_F10_a_a_a_a_a_>
                                     D  P>
                                     _b_>

                                     >XhoI
                                     |
      4140                               4150   4160   4170
      * * * * *
GAC CTG GAA AAA GAG GCC GAA GAG CTG GAG CAG GAA AAC GCT GAA CTC
D  L  E  K  E  A  E  E  L  E  Q  E  N  A  E  L>
_b_b_TWO AMPHIPATHIC HEPTAD S (1st PHASE- 783) _b_b_>

4180      4190      4200      4210      4220
      * * * * *
GAG CTG GAA GAC AGC TTT CAC AGT TTG CGG GAC TCA GTC CCA TCA CTC
E  L  E>
_b_b_>
      D  S  F  H  S  L  R  D  S  V  P  S  L>
      _c_c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_c_>

4230      4240      4250      4260      4270
      * * * * *
CAA GGA GAG AAG GCA TCC CGG GCC CAA ATC CTA GAC AAA GCA ACA GAG
Q  G  E  K  A  S  R  A  Q  I  L  D  K  A  T  E>
_c_c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_c_>

4280      4290      4300      4310      4320
      * * * * *
TAT ATC CAG TAT ATG CGA AGG AAA AAC CAT ACG CAC CAG CAA GAC ATT
Y  I  Q  Y  M  R  R  K  N  H  T  H  Q  Q  D  I>
_c_c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_c_>

4330      4340      4350      4360      4370
      * * * * *
GAT GAC CTC AAG CGG CAG AAT GCT CTT CTG GAG CAA CAA GTC CGT GCA
D  D  L  K  R  Q  N  A  L  L  E  Q  Q  V  R  A>
_c_c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_c_>

                                     >HindIII
                                     |
      4380                               4390   4400   4410   4420
      * * * * *
CTG GAG AAG GCA AGA TCA AGT GCC CAA CTG CAG ACC TGA GGCAAGCTTA
L  E  K  A  R  S  S  A  Q  L  Q  T>
_c_c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_c_>

```

FIG. 27

```

>NdeI
|
4090          4100          4110          4120          4130
* | * * * * *
ATATACAT ATG GCT AGC ATG ACT GGT GGA CAG CAA ATG GGT CGG GAT CCT
  M  A  S  M  T  G  G  Q  Q  M  G  R>
  _a_a_a_a_a_F10_a_a_a_a_a_>
                                     D  P>
                                     _b_>

>BamHI
|
4140          4150          4160          4170
* | * * * * *
GAC CTG GAA AAA GAG GCC GAA GAG CTG GAG CAG GAA AAC GCT GAA CTC
  D  L  E  K  E  A  E  E  L  E  Q  E  N  A  E  L>
  _b_b_TWO AMPHIPATHIC HEPTAD S (2ND PHASE- 784)_b_b_>

4180          4190          4200          4210          4220
* | * * * * *
GAG GAA CTG GAA GAC AGC TTT CAC AGT TTG CGG GAC TCA GTC CCA TCA
  E  E  L  E>
  _TWO AMPH_>
                                     D  S  F  H  S  L  R  D  S  V  P  S>
                                     _c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_>

4230          4240          4250          4260          4270
* | * * * * *
CTC CAA GGA GAG AAG GCA TCC CGG GCC CAA ATC CTA GAC AAA GCA ACA
  L  Q  G  E  K  A  S  R  A  Q  I  L  D  K  A  T>
  _c_c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_c_>

4280          4290          4300          4310          4320
* | * * * * *
GAG TAT ATC CAG TAT ATG CGA AGG AAA AAC CAT ACG CAC CAG CAA GAC
  E  Y  I  Q  Y  M  R  R  K  N  H  T  H  Q  Q  D>
  _c_c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_c_>

4330          4340          4350          4360          4370
* | * * * * *
ATT GAT GAC CTC AAG CGG CAG AAT GCT CTT CTG GAG CAA CAA GTC CGT
  I  D  D  L  K  R  Q  N  A  L  L  E  Q  Q  V  R>
  _c_c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_c_>

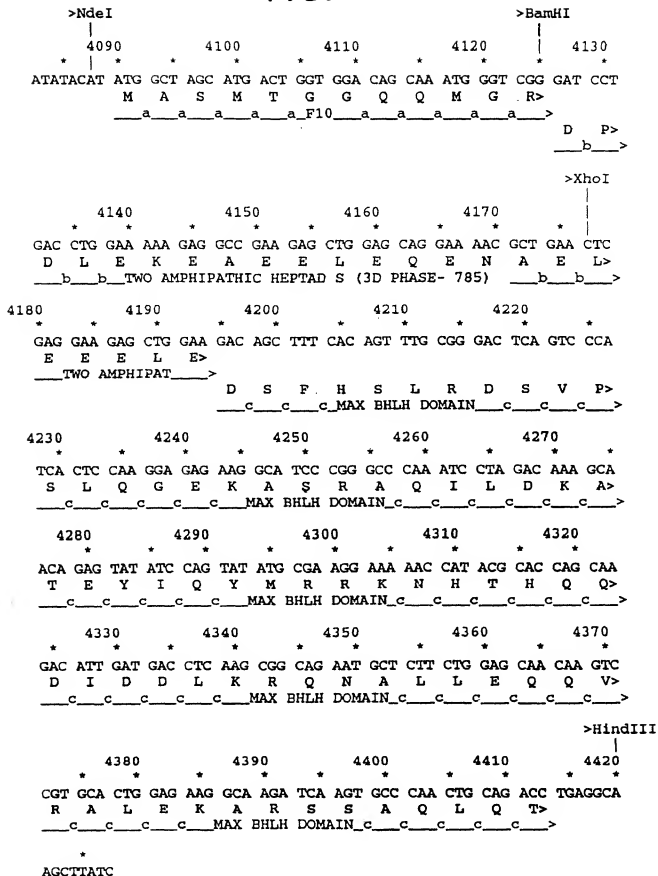
>HindIII
|
4380          4390          4400          4410          4420
* | * * * * *
GCA CTG GAG AAG GCA AGA TCA AGT GCC CAA CTG CAG ACC TGAGGCAAGC
  A  L  E  K  A  R  S  S  A  Q  L  Q  T>
  _c_c_c_c_c_MAX BHLH DOMAIN_c_c_c_c_c_>

```

TTATC

10059720.012002

2005-01-20



BamHI 10 20 30 40
 * * * * *
 GGATCCC AAC GAC AAG AGG CGG ACA CAC AAC GTC TTG GAA CGT CAG AGG
 N D K R R T H N V L E R Q R>
 ___PUTATIVE; NCBI GI: 50468; CODON_START=1; C-MYC ___>

50 60 70 80 90
 * * * * *
 AGG AAC GAG CTG AAG CGC AGC TTT TTT GCC CTG CGT GAC CAG ATC CCT
 R N E L K R S F F A L R D Q I P>
 ___PUTATIVE; NCBI GI: 50468; CODON_START=1; C-MYC PROTEIN;___>

100 110 120 130 140
 * * * * *
 GAA TTG GAA AAC AAC GAA AAG GCC CCC AAG GTA GTG ATC CTC AAA AAA
 E L E N N E K A P K V V I L K K>
 ___PUTATIVE; NCBI GI: 50468; CODON_START=1; C-MYC PROTEIN;___>

150 160 170 180 190
 * * * * *
 GCC ACC GCC TAC ATC CTG TCC ATT CAA GCA GAC GAG CAC AAG CTC ACC
 A T A Y I L S I Q A D E H K L T>
 ___PUTATIVE; NCBI GI: 50468; CODON_START=1; C-MYC PROTEIN;___>

200 210 220 230 240
 * * * * *
 TCT GAA AAG GAC TTA TTG AGG AAA CGA CGA GAA CAG TTG AAA CAC AAA
 S E K D L L R K R R E Q L K H K>
 ___PUTATIVE; NCBI GI: 50468; CODON_START=1; C-MYC PROTEIN;___>

250 260 270
 * * * * *
 CTC GAA CAG CTT CGA AAC TCT GGT GCA TAA AAGCTT
 L E Q L R N S G A *> HindIII
 ___PUTATIVE; NCBI GI: 50468; CODON___>

FIG. 29

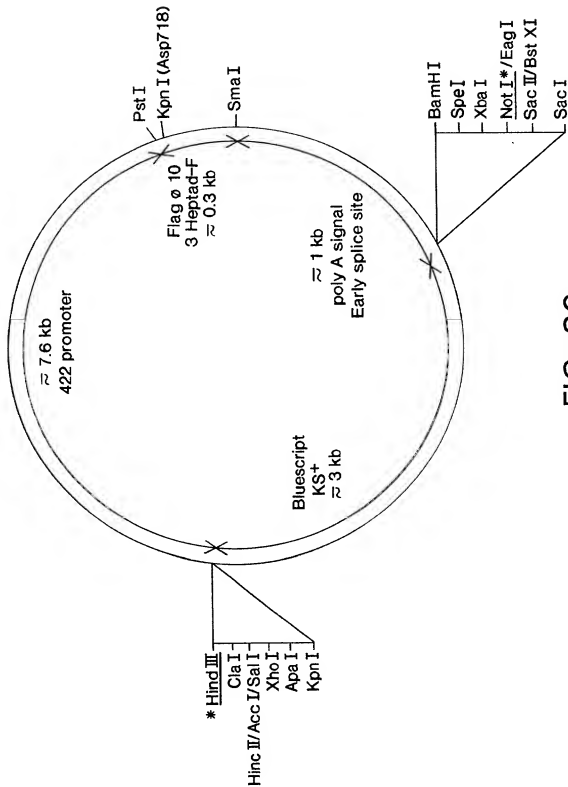


FIG. 30

206210.02/65001

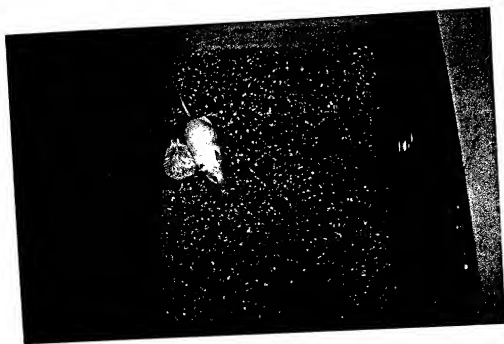


FIG. 31